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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/037,272	11/09/2001	Janne U. Aaltonen	324-010609-US(PAR)	6834	
2512 PERMAN & G	7590 12/28/2000 REEN	5	EXAMINER		
425 POST ROA			NG, CHRISTINE Y		
FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER	
			2616		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		12/28/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			14/			
	Application No.	Applicant(s)				
	10/037,272	AALTONEN, JANNE U	J.			
Office Action Summary	Examiner	Art Unit				
	Christine Ng	2616				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence address	s			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commun				
Status						
1) Responsive to communication(s) filed on 12	October 2006.					
,—	his action is non-final.					
3) Since this application is in condition for allow	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.l	D. 11, 453 O.G. 213.				
Disposition of Claims			•			
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	on.					
4a) Of the above claim(s) is/are withd						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
7) Claim(s) is/are objected to.			•			
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	iner.					
10) The drawing(s) filed on <u>09 November 2001</u> is	s/are: a)⊠ accepted or b)[☐ objected to by the Examiner				
Applicant may not request that any objection to the	he drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre						
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	ed Office Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:						
 Certified copies of the priority docume 	ents have been received.					
2. Certified copies of the priority docume						
3. Copies of the certified copies of the pr	•	n received in this National Stag	je			
application from the International Bure	•	A respired	•			
* See the attached detailed Office action for a li	ist of the certified copies no	t received.				
		·				
Attachment(s)						
1) Motice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0		Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date						

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 7, 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,721,565 to Ejzak et al in view of U.S. Patent No. 6,321,096 to Lautenschlager et al.

Referring to claims 1 and 15, Ejzak et al disclose in Figure 5 a method of transmitting messages in a telecommunication system comprising a first network offering circuit-switched services (circuit domain 120), a second network offering packet-switch services (packet domain 110), and at least one mobile station (140e) supporting the first and the second network. Refer to Column 14, lines 10-17. The method comprises the steps of:

Checking, in response to the need to transmit at least one message, if the mobile station is attached to the second network. If mobile station 140e needs to send a call to land-side terminal 138, a call is established via control paths 570, 572, 574 and packet bearer paths 580, 582. Refer to Column 14, lines 18-29. This is only possible if the RF path between the terminal 140e and the base station 142 of packet domain 110 is strong enough, as measured by the terminal. Refer to Column 11, lines 37-50.

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Transmitting said at least one message to the second network in response to the mobile station being attached to the second network. A stable call is formed between mobile station 140e and land-side terminal 138. Refer to Column 14, lines 18-29.

Transmitting said at least one message to the first network in response to failure to transmit the message via the second network. If the RF path between the terminal and base station is not strong enough, handover to the circuit domain 120 is required. Refer to Column 11, lines 37-50; and Column 14, lines 30-64.

Ejzak et al do not specifically disclose that checking RF path quality to determine handover is the same as checking if the mobile station is attached to the second network and transmitting to the second network.

Lautenschlager et al disclose in Figure 1 a similar situation of handover between a public telephone network PSN and a mobile network MN. For example, if the field strength of the radio network base station (connected to the PSN) falls below a threshold, a control unit (Figure 2, CONTR) in the mobile station switches over to the MN. In conjunction with the switch-over, the control unit deactivates the communication unit KOM1 (connected to the PSN) and activates the communication unit KOM2 (connected to the MN). All switch-over processes require that the mobile unit detach itself from the old network and attach itself to the new network, as shown in Figures 3a and 3b. Refer to Column 5, line 12 to Column 7, line 13. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that checking RF path quality to determine handover is the same as checking if the mobile station is attached to the second network and transmitting to the second

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network. One would be motivated to do so since the mobile station cannot transmit to a network unless it is attached to that network. A mobile station can become detached from a network if the transmission quality of the network is poor and a handoff is required. The status of a mobile terminal "... in the home data base HLR from "attached" to "detached" causes a switch-over of the routing on the network-side" (Column 8, lines 9-11).

Referring to claim 7, refer to the rejection of claim 1. Furthermore, Ejzak et al do not disclose that the mobile station comprises the means for performing the method of claim 1.

Lautenschlager et al disclose in Figure 1 a similar situation of handover between a public telephone network PSN and a mobile network MN. For example, if the field strength of the radio network base station (connected to the PSN) falls below a threshold, a control unit (Figure 2, CONTR) in the mobile station switches over to the MN. In conjunction with the switch-over, the CONTR deactivates the communication unit KOM1 (connected to the PSN) and activates the communication unit KOM2 (connected to the MN). The steps are performed by the CONTR in the mobile unit. Refer to Column 5, lines 12-43. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the mobile station comprises the means for performing the method of claim 1. One would be motivated to do so in order to allow mobile assisted handoff.

Referring to claims 2 and 8, Ejzak et al disclose in Figure 5 wherein said message is transmitted via the first network in response to non-attachment to the

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second network. If the RF path between the terminal 140e and base station 142 of packet domain 110 is not strong enough, the terminal has moved too far away from the base station. Handover to the circuit domain 120 is then required. Refer to Column 11, lines 37-50; and Column 14, lines 30-64.

Referring to claim 3, Ejzak et al disclose in Figure 9 that the method further comprises the steps of:

Suspending packet-switched service (918, 920, 922) in the second network before transmitting said message to the first network. Refer to Column 14, lines 53-64.

Continuing offering the packet-switched service after transmission of said message at the request of the first network or the mobile station. The mobile station can handover the call back to the packet domain 120 if the RF path between the mobile station 140e and the circuit domain 110 fails. The mobile station reports measurements of the signal strength of transmissions from nearby base stations. Refer to Column 11, lines 37-50.

Referring to claim 4, Ejzak et al disclose in Figure 5 that the first network is a GSM network and the second network is a GPRS network. Refer to Column 7, lines 49-64; and Column 8, lines 19-40.

3. Claims 5, 6, and 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,721,565 to Ejzak et al in view of U.S. Patent No. 6,321,096 to Lautenschlager et al, and in further view of U.S. Publication No. 2003/0039237 to Forslow.

Referring to claim 5, Ejzak et al do not disclose that said message is a text-based

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short message of a short message service SMS or a picture message.

Forslow discloses in Figure 2 a mobile station 16 that can choose between transmission of data through a circuit-switched network 35 or a packet-switched network 51. The data can include applications such as short message exchange, downloaded graphics files from a website, and email. Refer to Sections 0003, 0015 and 0022. Furthermore, Ejzak et al disclose in Figure 5 that the information transfer includes "multimedia variants" (Column 7, lines 11-16), which can include text and graphics. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that said message is a text-based short message of a short message service SMS or a picture message. One would be motivated to do so in order to make system more flexible by supporting short messages, an increasingly popular form of communication.

Referring to claims 6 and 9, Ejzak et al do not disclose that the user of the mobile station is offered the option to choose whether the messages are transmitted via the first network of the second network, and the messages are transmitted in accordance with the user's choice.

Forslow discloses in Figure 2 a HLR 42 that stores subscription records including subscribed quality of service profiles and parameters. Based on the quality of service for a specific application of flow, an optimal one of a circuit-switch and a packet-switched bearer is selected to carry that specific application flow. A common access server of a gateway node permits a mobile station to establish communications with an external network entity using the optimal bearer. Refer to Sections 0029, 0050, and

0054. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the user of the mobile station is offered the option to choose whether the messages are transmitted via the first network of the second network, and the messages are transmitted in accordance with the user's choice. One would be motivated to do so in order to make the system more flexible by allowing the user to choose which network to transmit data through, depending on the transmission characteristics and priority level of the data.

Referring to claim 10, refer to the rejection of claim 4 and claim 5.

Referring to claims 11 and 12, Ejzak et al do not disclose that in said step of transmitting at least one message to the second network, said at least one message is transmitted via a short message service (SMS) form of transmission.

Forslow discloses in Figure 2 a mobile station 16 that can choose between transmission of data through a circuit-switched network 35 or a packet-switched network 51. The data can include applications such as short message exchange. Refer to Sections 0003, 0015 and 0022. Furthermore, Ejzak et al disclose in Figure 5 that the information transfer includes "multimedia variants" (Column 7, lines 11-16), which can include text and graphics. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that in said step of transmitting at least one message to the second network, said at least one message is transmitted via a short message service (SMS) form of transmission. One would be motivated to do so in order to make system more flexible by supporting short messages, an increasingly popular form of communication.

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Referring to claims 13 and 14, refer to the rejection of claim 4 and claim 5. Ejzak et al disclose that the message is transmitted to the first network offering circuit-switched services in response to a failure via the GPRS network. Refer to the rejection of claims 1, 7 and 15.

Ejzak et al do not disclose that the message is transmitted to the first network offering circuit-switched services in response to a failure via the GPRS network if an error message is received in the mobile station.

Lautenschlager et al disclose that if a mobile station is out of range, a warning message can be sent to prevent further data transmission. The control unit of the mobile station then waits until the existing communication connection is terminated before it initiates switchover. Refer to Column 5, lines 12-43. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the message is transmitted to the first network offering circuit-switched services in response to a failure via the GPRS network *if an error message is received in the mobile station*. One would be motivated to do so in order to notify a mobile station when it becomes detached from a serving network and must switchover to another network.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Ng whose telephone number is (571) 272-3124. The examiner can normally be reached on M-F; 8:00 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C. Ng December 1, 2006

HUY D. VU SUPERVISORY PATENT EXAMINER

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